PHILIP MORRIS USA

RESEARCH AND DEVELOPMENT DEPARTMENT

FRANCE TEST #109

MR4-06MF
MR6-06MF
PM6-06MF

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FRANCE TEST #109

The following cigarette brands from France (Riom) were received for testing on November 12, 1976. These cigarettes were of October, 1976 production.

Marlboro Long Size 20's (Box)
Marlboro King Size 20's (Soft Pack)
Philip Morris King Size 20's (Soft Pack)

The Marlboro long size cigarettes were different from the previous average in tar, TPM and nicotine.

The Marlboro king size cigarettes were different from the previous average in tar and TPM.

The Philip Morris king size cigarettes were not different from the previous average in any of the characteristics tested.

	Marlboro Long Size 20's (Box) France		Marlboro King Size 20's (Soft Pack) France		Philip Morris King Size 20's (Soft Pack) France	
	Current	Prev. Avg.	Current	Prev. Avg.	Current	Prev. Avg.
Smoke						
Butt Length, mm	26	26	27	27	27	27
FTC Tar, mg/cigt.	18.4	20.0	20.5	18.2	18.9	17.7
TPM, mg/cigt.	22.1	24.4	24.7	23.0	22.5	22.3
Nicotine, mg/cigt.	1.12	1.29	1.29	1.37[2]	1.09	1.14
Water, mg/cigt.	2.6	3.1	2.9	3.4	2.5	3.5
Puffs/cigt.	8.5	9.1	10.0	9.6	9.3	9.3
Filtration Eff., %	42	45	44	46	44	49
Cigarette						
Total RTD, in. of H_2O	4.3	4.3	4.9	4.8[2]	4.7	5.0
mm of H_2O	109	109	124	122	119	127
Static Burn. Time, min.	7.7	8.0	8.6	7.9	7.9	7.8
Length, mm	79.6	79.8	83.8	83.9	83.9	84.0
Circumference, mm	25.1	25.1	25.1	25.1	25.2	25.0
Diameter, mm	8.0	8.0	8.0	8.0	8.0	8.0
Paper						
Porosity, sec.	15	14	15	14	15	15
Filter						
RTD, in. of H_2O	2.5	2.6	2.8	2.7	2.7	3.0
mm of H_2O	64	66	71	69	69	76
Length, mm	18.0	18.0	19.9	20.2	19.9	20.0
Weight, g	0.13	0.13	0.14	0.13	0.14	0.14
Tipping paper length, mm	23	23	24	24	24	24
Filler						
Total alkaloids, %	1.54	1.62	1.66	1.73	1.47	1.57
Total reducing sugars, %	6.9	6.8	7.4	7.5	7.0	8.0
Wt. of tob., 1,000 cigts., g	838	837	898	868	868	870
1,000 cigts., lbs.	1.8462	1.8436	1.9772	1.9112	1.9112	1.9155[3]
Rod Density, g/cc	0.271	0.270	0.280	0.273[2]	0.268	0.271[3]
[1]C.V., cc/10 g	31	31	31	32	33	31
C.V., cc/10 g (Corrected to 12% O.V.)	37	38	37	37	38	37
[1]Oven Volatiles, %	13.8	14.2	13.8	13.5	13.7	13.9

[1]Equilibrated at 75°F and 60% R.H. for 48 hrs.
[2]Results of Test #100, dated March 24, 1976, where a change was noted.
[3]Results of Test #102, dated April 29, 1976, where a change was noted.

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